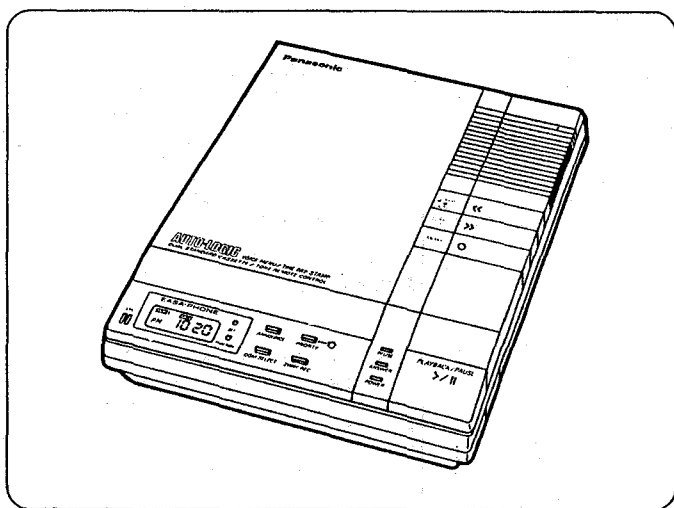


Operating Instructions

AUTOMATIC TELEPHONE
ANSWERING SYSTEM

EASA-PHONE

Model No. **KX-T1470**



AUTO-LOGIC™

La referencia rápida en español puede ser encontrada en las
páginas 35~39.
(Spanish Quick Reference can be found on pages 35~39.)

Panasonic

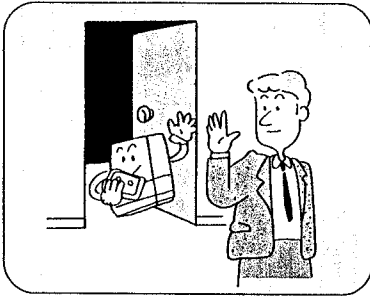
Please read before use.

Introduction

Thank you for purchasing the Panasonic Telephone Answering System.

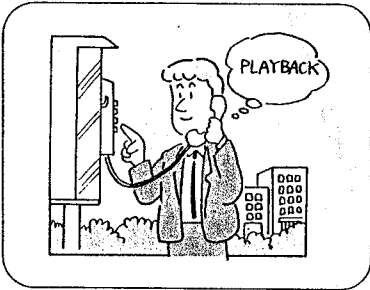
The KX-T1470 is capable of recording two Outgoing Messages (2 OGMs).

You can use the Model KX-T1470 to:



- Answer calls and record messages with the Time/Day stamp when you cannot answer the telephone or do not want to be disturbed
- Monitor (screen) calls
- Record telephone conversations and message memo
- Leave the Priority Message

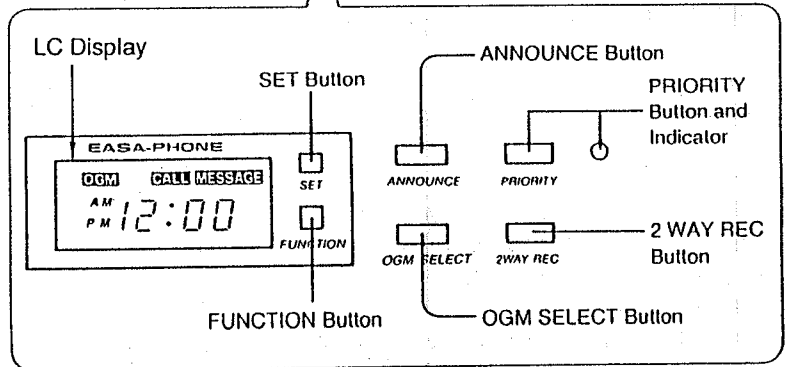
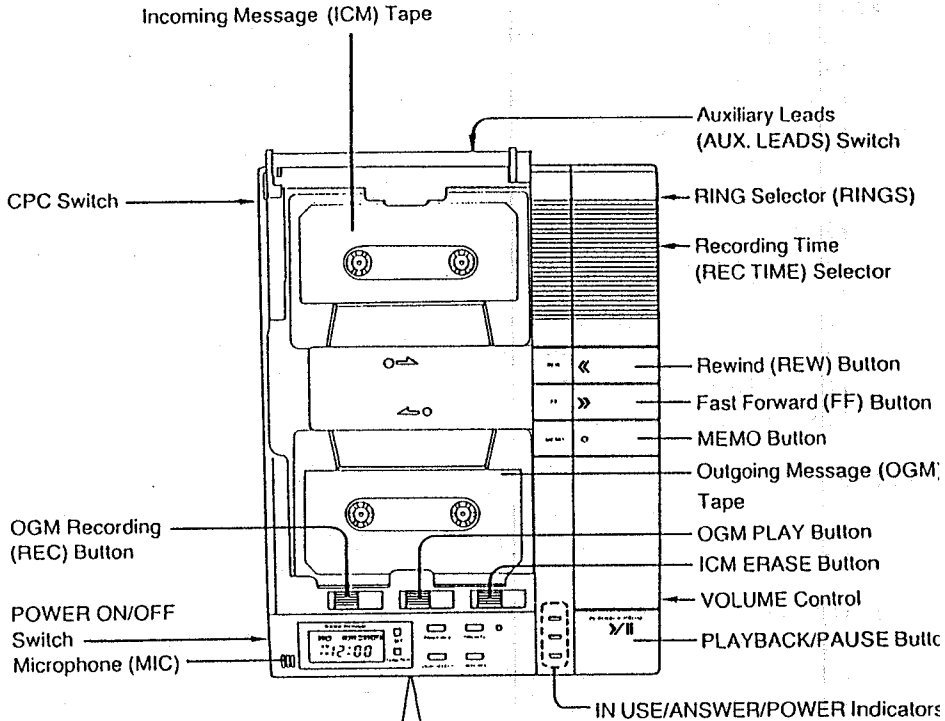
By using the advanced remote-control features of your KX-T1470, you can also:



- Call in from a touch tone telephone to listen to your messages
- Record new Outgoing Messages even when you are away from your unit
- Leave messages when you are away from your unit

Quick Reference Card for remote operation can be found on page 45.
Detach the Card from the Operating Instructions and use it at your convenience.

Location of the Controls



Keep this page unfolded while you are reading this Operating Instructions. This makes it easier to locate the controls and switches mentioned in the instructions.

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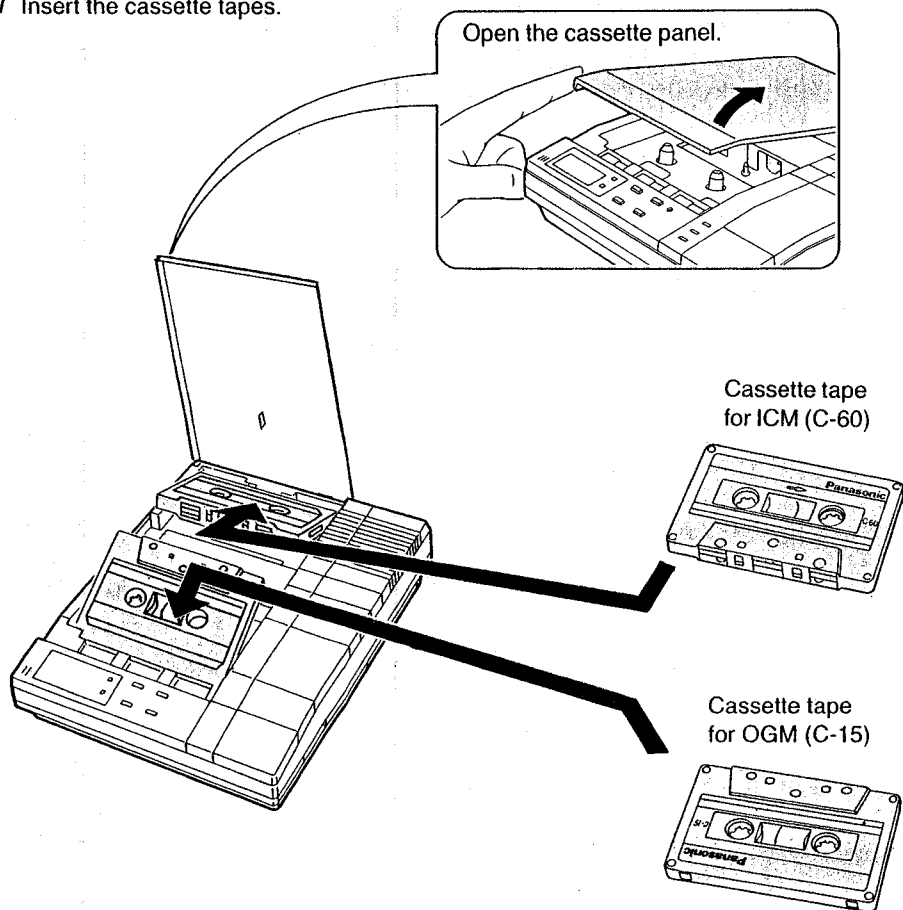
Accessories

AC Adaptor	1
Telephone Line Cord	1
Outgoing Message Tape	1
Incoming Message Tape	1

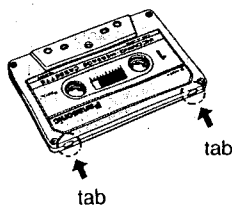
Preparation

CASSETTE TAPE INSTALLATION

1 Insert the cassette tapes.



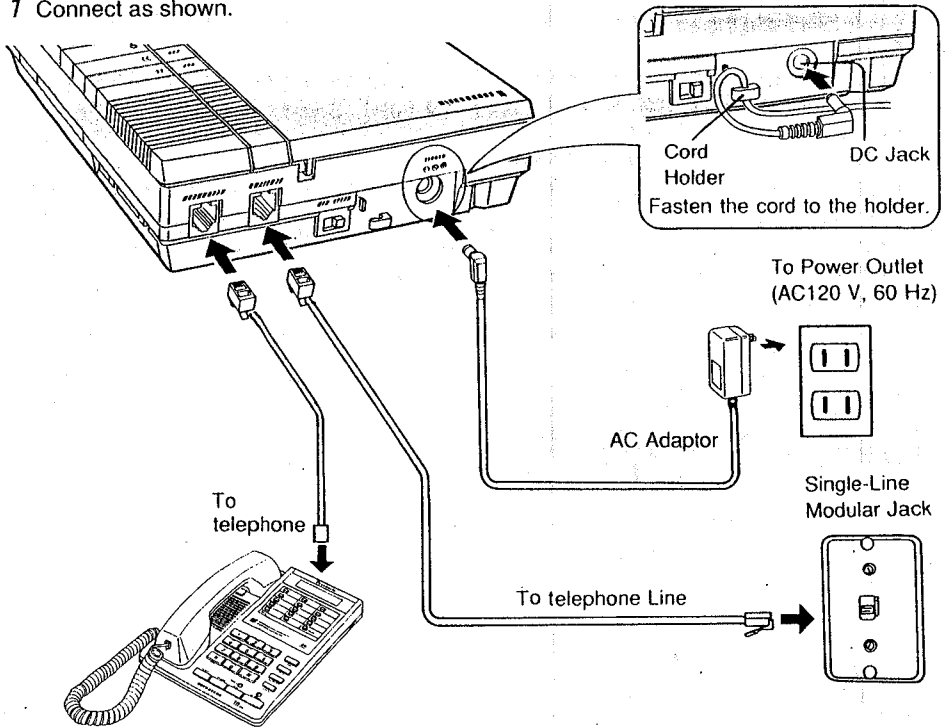
■ After replace the OGM tape, push the OGM PLAY and the REW buttons to reset it.



The tape can be erased even if the record-prevention (knock-out) tabs have been removed.

CONNECTION

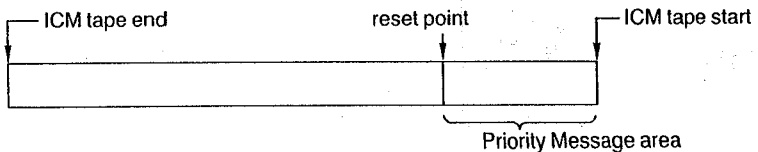
1 Connect as shown.



2 Push the **POWER ON/OFF** switch to turn the unit **ON**. (left side of unit)

- The unit will rewind the ICM tape. After 7 seconds, the unit will fast forward the Priority Message area on the ICM tape, then stop.

The unit will start to reset the OGM tape after resetting the ICM tape. (See page 19 for Priority Message.)



- 3 minutes after connecting the AC adaptor, the unit will be turned on automatically and reset the ICM and OGM tapes even when the **POWER ON/OFF** switch is not set to **ON**.

■ USE ONLY PANASONIC AC ADAPTOR KX-A11.

- The unit must not be connected to a coin operated line. If you are on a party line, check with your local telephone company.
- While operating the unit, the cabinet of the AC Adaptor may feel warm, this is a normal condition.

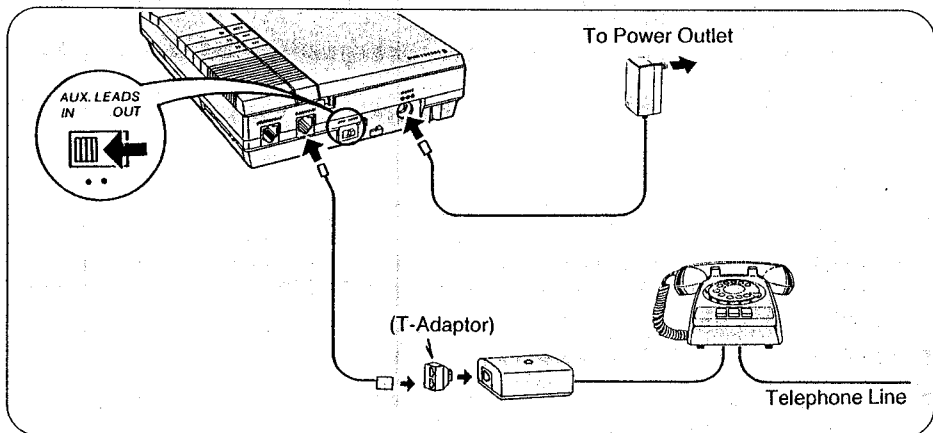
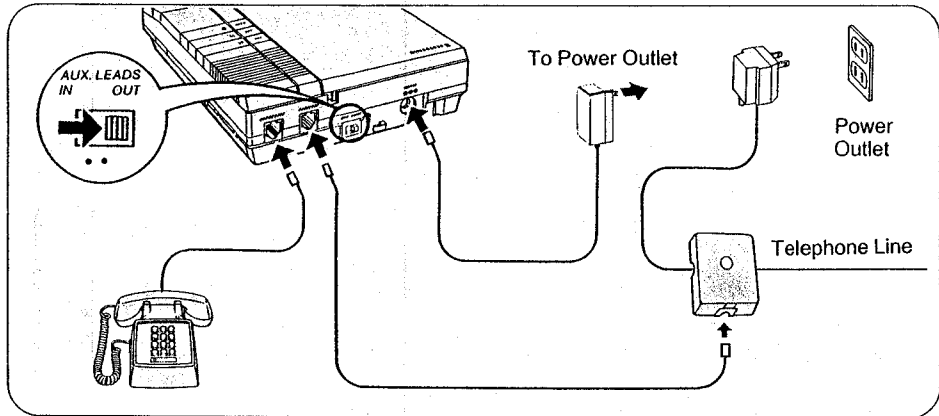
CONNECTION TO A TELEPHONE LINE

AUX. LEADS switch is designed to accomodate business with key telephone systems. It serves to eliminate the interference that would otherwise result from connecting your unit to your key system.

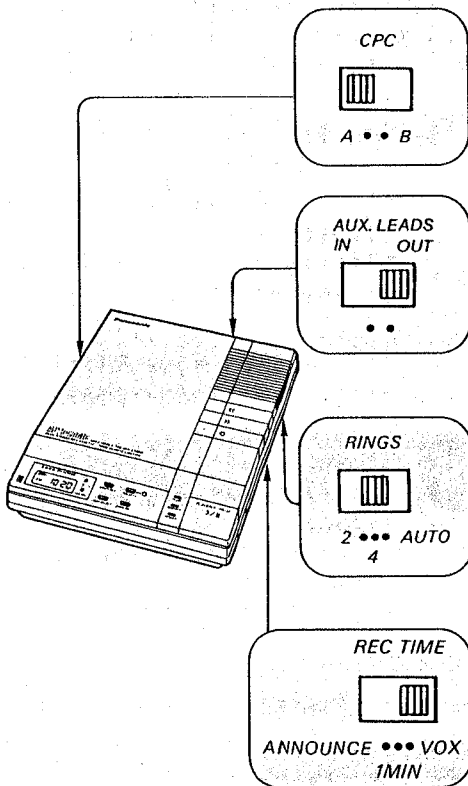
A) If your telephone jack has an external AC transformer (for lighted dial) wired into it, be sure to keep the AUX. LEADS switch set to the "OUT" position in order to isolate the unit from the AC transformer.

B) In such cases, follow each instructions.

- Some KSUs (Key Service Units) may require you to set the AUX. LEADS switch to the "IN" position.
- If the unit is connected to the multi-line telephone, you must depress the line selector button on the telephone corresponding to the particular telephone line you want the unit to answer, set the AUX. LEADS switch to the "IN" position.



INITIAL SETTINGS



Calling Party Control (CPC) Setting

Set to "A". (no call waiting service line.)
If you have call waiting service or Incoming Messages are interrupted, set to B.

Auxiliary Switch

Usually set to "OUT".
For details, see page 7.

Number of Rings

- 2 The unit will answer a call on the second ring.
- 4 The unit will answer a call on the fourth ring.
- AUTO . . . See "TOLL SAVER".

Recording Time Selector

- VOX . . . The unit will record for as long as the caller speaks.
- 1 MIN . . The unit will record up to 1 minute.
- ANNOUNCE . . .

The unit will play back the OGM only and will not record any callers' messages.

The LC Display will show **CALL**.

TOLL SAVER

The TOLL SAVER feature lets you avoid a toll charge when you call your unit and no messages have been recorded.

1 Set the number of rings to **AUTO**.

- If the unit does not pick up on the third ring, hang up immediately. This means you have no messages and you have saved a toll charge.

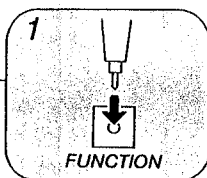
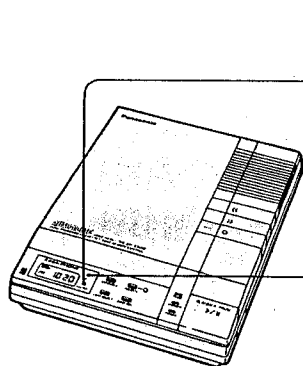
■ The unit picks up **on the second ring**:

It means that at least one message has been recorded.

- After you have played back all the messages from a remote phone, **the unit will pick up the next call on the fourth ring**. If the unit picks up on the second ring, it means that at least one new message has been recorded.

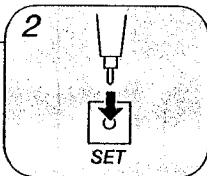
REMOTE CODE (PASSWORD) SETTING

You must set and remember your own Remote Code Number (Password). Choose your Code Number among the digits 0~99, then start your Remote Code programming with a pointed object such as a ball point pen as follows.



Push **FUNCTION** to enter the programming mode.

- The LC Display will flash indicating "11".
- "Please enter your password." will be announced.



Hold down **SET** until your desired number is indicated on LC Display.

- The LC Display will count up the number;
"11 → 12 → 13 ... 99 → 00 → 01 → 02 →..."
- To adjust the time, you may go directly to step 2 of "How to Adjust Time" on right side if you wish.

3 When programming is finished, leave the unit as it is.

- After 30 seconds, the unit will end the programming mode automatically.

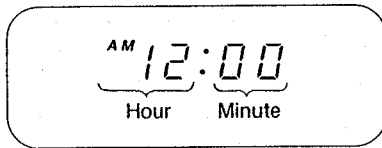
■ Your selected number (on the LC Display) will be stored into memory.

NOTE:

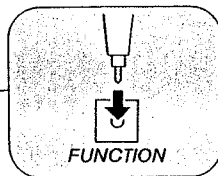
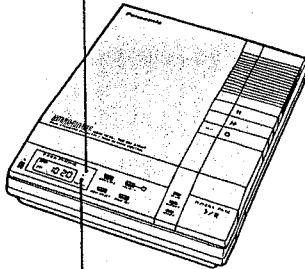
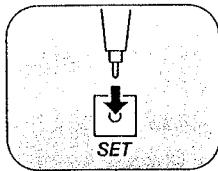
"Password" means the Remote Code number for the unit.

ADJUSTING TIME

Push the **FUNCTION** and **SET** buttons with a pointed object such as a ball point pen.



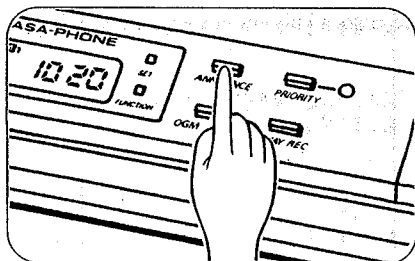
Selected mode flashes.



- 1 Push **FUNCTION** to enter the programming mode.
 - The LC Display will flash indicating "11".
 - "Please enter your password." will be announced.
- 2 Push **FUNCTION**.
 - "Sunday" will be announced.
 - "." will flash.
- 3 Push **SET** to adjust the Day.
 - Day will be announced.
- 4 Push **FUNCTION**.
 - Hour digits will flash.
- 5 Push **SET** to adjust the Hour.
- 6 Push **FUNCTION**.
 - Minute digits will flash.
- 7 Push **SET** to adjust the Minute.
- 8 Push **FUNCTION** to complete adjustment.
 - The unit will announce the day and time.

- When completing the adjustment, push the **FUNCTION** according to the time signal to set the 0 second.

CONFIRMING THE TIME AND DAY



Push **ANNOUNCE**.

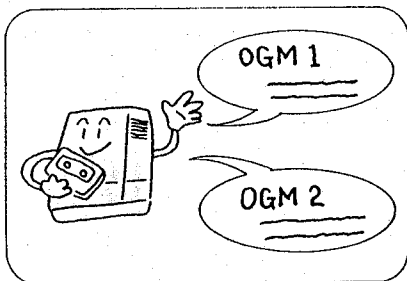
- The unit will announce the programmed Time and Day.
- The LC Display will show the present time.
- Turn up the volume if necessary.
(VOLUME control is right side of unit.)

- If the unit does not announce the Time and Day, set Time and Day again.
- The programmed time can be stored up to about 3 hours during a power failure.
- The accuracy of the clock will be approximately ± 45 seconds a month at room temperature.

How to Record an Outgoing Message (OGM)

Before operating your unit, you must record the Outgoing Message (OGM). The OGM will inform the calling party of your absence and will ask to leave a message.

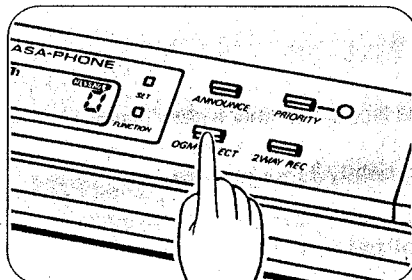
- You can record two OGMs.



- The **OGM 1**'s recording time is limited to 30 seconds. So you may leave a short message.
- The **OGM 2** is an extended OGM and its recording time may be any length up to the end of the tape. So you can leave any kind of message you like, for example, advertisement for your company.
- The LC Display shows the selected OGM.

SELECTING THE OGM MODE 1 OR 2

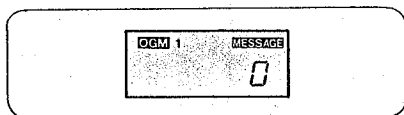
Which message is recorded or played depends on the selection of OGM 1 or 2. The OGM mode will change alternately everytime you push the OGM SELECT button.



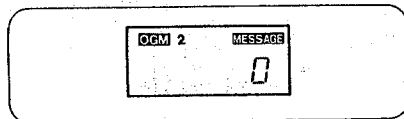
- 1 Push **OGM SELECT**.

- The unit will announce the selected OGM "One" or "Two", and LC Display will show your selection.

- You can see which OGM is selected from the LC Display.



- Now OGM 1 is selected.



- Now OGM 2 is selected.

- After selecting OGM 1 or 2, proceed to "RECORDING THE OGM" on page 13.

RECORDING THE OGM

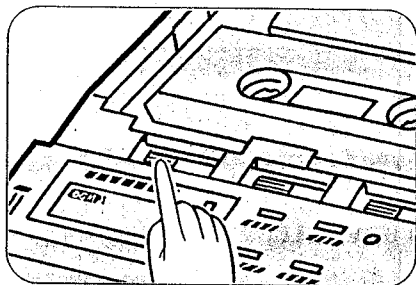
Be sure that your desired OGM is indicated on LC Display. (Refer to "SELECTING THE OGM MODE 1 OR 2" on page 12.)

OGM 1: Recording time is up to 30 seconds.

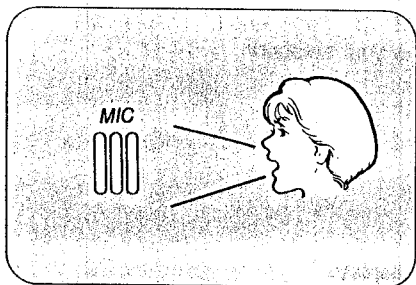
If you do not finish recording within 30 seconds, the unit will automatically stop recording.

OGM 2: Recording time may be any length up to the end of the tape.

- If you pause for over 2 seconds while recording, you will hear series of warning tones (6 beeps) and the announcement of "Please record your OGM again.", then the unit will rewind the tape. If this happens, start with step 1 again after the unit stops rewinding.

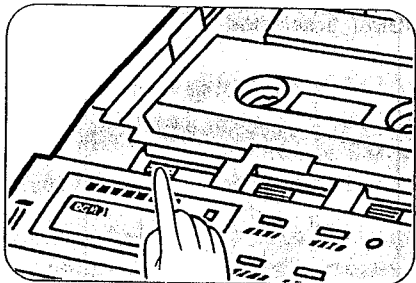


- 1 Push **OGM REC** until a long beep is heard, then release it.



- 2 After the long beep, speak **clearly and loudly** into the microphone (MIC), from **approximately 8 inches away**.

- The LC Display will count the seconds that you use recording your OGM.
"0" → "1" → "2" → ...



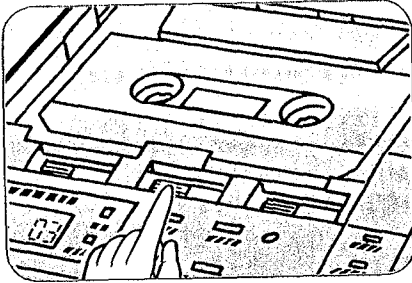
- 3 When you finish recording, push **OGM REC** again.

- The unit will rewind the tape to the beginning, and will be ready for recording incoming calls.

CHECKING YOUR OGM

You can check your OGM any time.

After selecting the OGM mode (1 or 2) that you want to check.



1 Push **OGM PLAY**.

- The unit will play back the OGM, then rewind the tape to the beginning.
- Use the **VOLUME** control on the right of your unit to regulate the volume during playback if necessary.
- To cancel the operation during playback, push the **OGM PLAY** button.

NOTE:

- The unit will automatically change to the Answer mode 7 seconds after completing the OGM recording or playing back. At this time, the ANSWER indicator will light.
- Answer mode:**
When a call is received, the unit will automatically answer and record Incoming Messages on the ICM tape.

SAMPLE OGMS

1. "This is the Panasonic (your name or business) Sales Company. We are glad that you called but our office is closed until 9 o'clock in the morning. If you leave a message, including your name and telephone number after the beep, we will return your call as soon as we can. Thank you."
2. "Hello, this is (your name, business and/or telephone No.).
I am sorry I am not here to speak to you at the moment. Please leave a message after the beep. **You have up to 1 minute for recording.** Thank you."
3. "Hello, this is the Smith residence. Sorry to miss your call, but we can't come to the phone right now. If you call back tomorrow, we'll be happy to talk to you. Thanks."

NOTE:

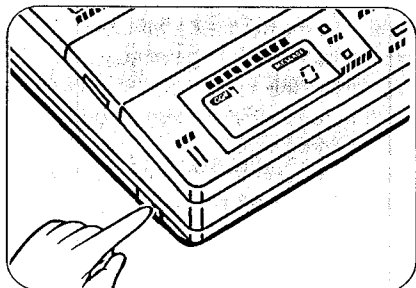
The unit may be set to record an unlimited incoming message in the "VOX" position, an incoming message limited to 1 minute "1 MIN" position or to announce only and not record any incoming messages "ANNOUNCE" position of the Recording Time Selector. The 3 sample OGMS above correspond to these 3 conditions.

Setting Prior to Leaving

RECORDING THE CALLERS' MESSAGES

Confirm that the **POWER indicator is lit**. (The unit is turned on.)

If the unit is not turned on:



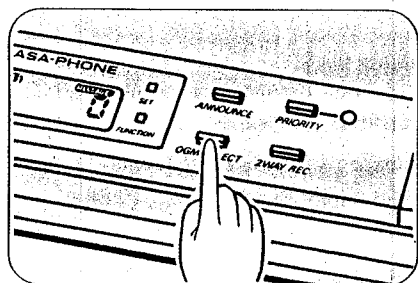
Push **POWER ON/OFF** to turn the unit on.

- After 7 seconds, Day and Time will be announced.
- The ANSWER indicator will light.
- The LC Display will show "0".

- When you want to inform your OGM but do not want to record the callers' messages, set the **Recording Time selector** to "**ANNOUNCE**". (See page 8.)
- If you do not want the unit to answer the call, push the **POWER ON/OFF** switch to turn the unit **OFF**.

SELECTING THE OGM MODE 1 OR 2

Which message is played is depended upon the selection of OGM 1 or 2.



Push **OGM SELECT**.

- The unit will announce the selected OGM "One" or "Two", and LC Display will show your selection.

Listening to the Recorded Messages

- When an Incoming Message has been recorded, the LC Display will show the number of messages and the ANSWER indicator will flash.
- In case of power interruption, the LC Display will flash with indicating the wrong time after the power is restored. In this case, adjust the time again. (See page 10.)
- The OGM mode will remain the same after the power is restored.

AUTO-LOGIC (One-Touch Operation):

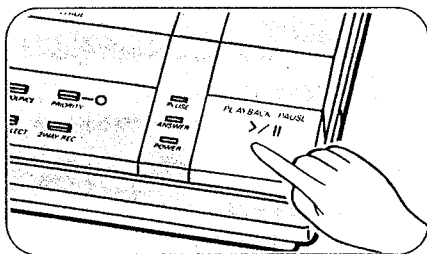
At the touch of the **PLAYBACK/PAUSE** button, the unit will automatically rewind and play back all the recorded messages. At the end of the last message, "End of final message." will be announced. After 7 seconds, the unit will be ready for recording incoming calls. All calls will be automatically saved.

VOICE TIME/DAY STAMP

When the messages are received, a voice synthesized announcement of the time and day will be recorded on the ICM tape after the recorded message.

- If the Voice Time/Day Stamp is not recorded after the recorded messages, set time and day again. (See page 10.)

LISTENING TO THE MESSAGES

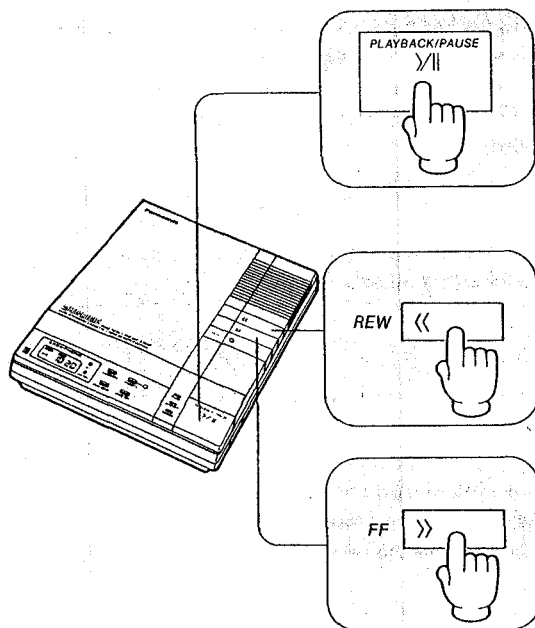


1 Push **PLAYBACK/PAUSE**.

- The playback volume is adjustable using the **VOLUME** control (right side of unit).
- After playing back, "End of final message." will be announced.

- When the Priority Message is recorded, the unit will play back it at first, then the recorded messages will be played back.

WHILE LISTENING TO THE MESSAGES



To stop the tape temporarily, push **PLAYBACK/PAUSE** button.

- The IN USE indicator will flash. The tape will pause until you restart it by pushing the same button again.

To rewind the tape, push **REW**.

To fast forward the tape, push **FF**.

- If you want the unit to stop rewinding or fast forwarding the tape, push the **PLAYBACK/PAUSE** button. The unit will play back the tape from the point you push the button.

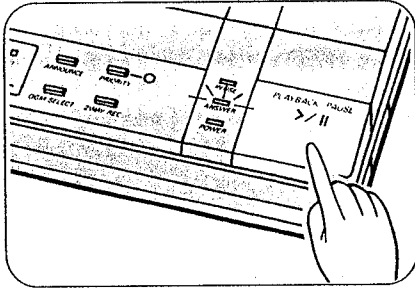
REPLACING THE TAPE(S)

OGM tape: After replacing the OGM tape, push the OGM PLAY and the REW buttons to reset it.

ICM tape: After replacing the ICM tape, push the REW button to reset it.

- The unit will rewind the tape to the beginning, then stop. After 7 seconds, the unit will fast forward the Priority Message area on the ICM tape, then stop.

RE-PLAYING BACK ALL THE MESSAGES



1 Wait until the ANSWER indicator is lit after playing back all the messages.

2 Push **PLAYBACK/PAUSE**.

- The unit will play back all the recorded message again.

- If you push the PLAYBACK/PAUSE button before the ANSWER indicator is lit by mistake, push the REW button to rewind the tape. Within 7 seconds after rewinding, push the PLAYBACK/PAUSE button to re-play back all the messages.

AFTER LISTENING TO THE MESSAGES

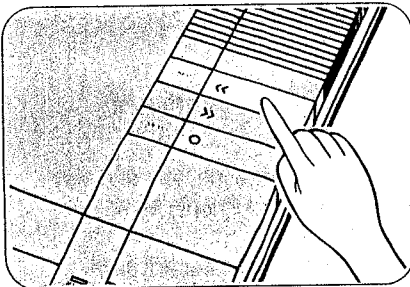
After reviewing the ICM, the unit will automatically reset itself to the Answer mode.

To Record after the Last Message

Confirm that the LC Display shows "0", then leave the unit as it is.

- The old messages are automatically saved.

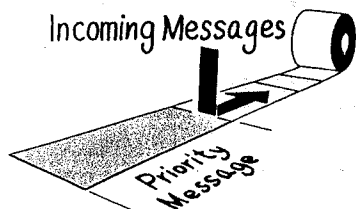
To Record from the Beginning of the ICM area of the Tape



Push **REW**.

- The unit will rewind and reset the tape. (The Priority Message area will be fast-forwarded.)
- The ANSWER indicator will light, and the unit will be ready for recording incoming calls.
- When the Priority Message has been recorded, it will be reset at the same time and the PRIORITY indicator will go out.

Priority Message

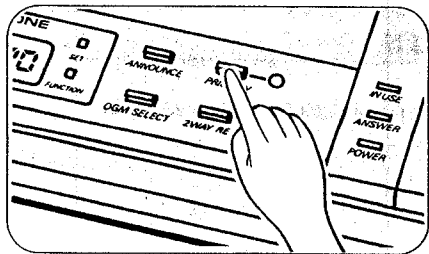


Your family member can leave an urgent message up to 60 seconds at the beginning of the ICM tape as the Priority Message. When you play back from a remote phone, the Priority Message will be played back first, then other messages will be played back.

RECORDING A PRIORITY MESSAGE

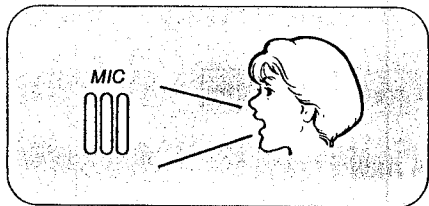
Recording time is up to 60 seconds.

- If you pause for over 2 seconds while recording, you will hear a series of warning tones (6 beeps), LC Display will show "Err", then the unit will rewind the tape. If this happens, start with step 1 again after the unit stops rewinding.



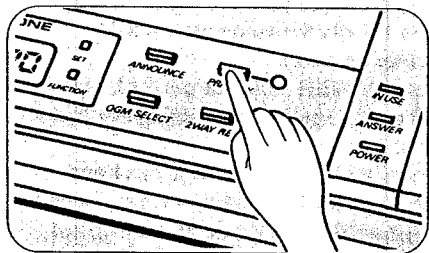
- 1 Push **PRIORITY** until a beep is heard.

- The unit will rewind to the beginning of the tape and a long beep will be heard.



- 2 After a long beep, speak **clearly and loudly approximately 8 inches away from MIC.**

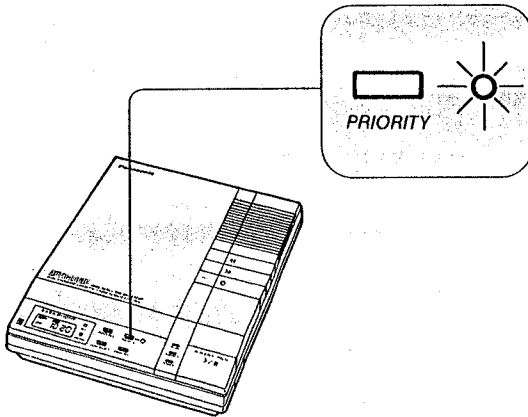
- The IN USE indicator will flash.



- 3 When recording is finished, push **PRIORITY** again.

- The unit will rewind the tape and play back the recorded Priority Message automatically.
- The PRIORITY indicator will flash.

NOTE: Please note that the message counter on LC Display does not count the Priority Message as one, but if you use the remote feature, the voice menu will count the Priority Message.



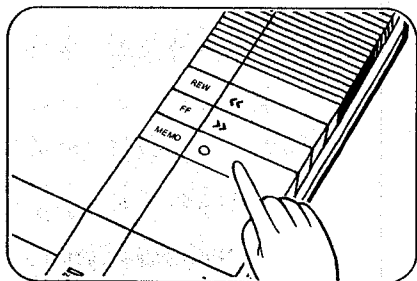
The PRIORITY indicator will flash to show a new priority message is recorded.

- When you play back ICM tape from a remote phone, the Priority Message can be heard first.
- One Priority Message can be recorded (up to 60 seconds).
 - To change the Priority Message, follow the procedures on page 19. The previously recorded message will be erased.
 - To record more private messages, follow the procedures of "MESSAGE MEMO" on page 21.
- To play back the Priority Message, push the PLAYBACK/PAUSE button until a beep is heard.

Other Features

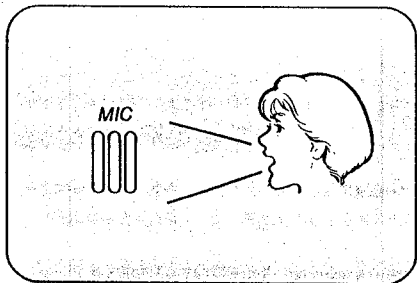
RECORDING A MESSAGE MEMO

Your family member may record a message memo any time at home on the ICM tape. It will be heard by anyone retrieving messages from a remote phone.



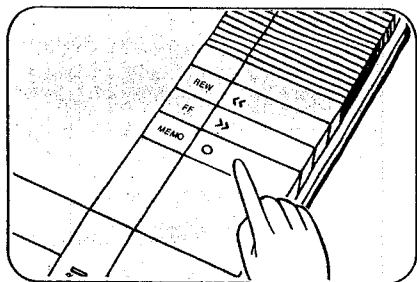
1 Push **MEMO** until a beep is heard.

- The number on the LC Display will increase by one.



2 Speak into the MIC.

- The IN USE indicator will light.



3 When you finish recording, push **MEMO** again.

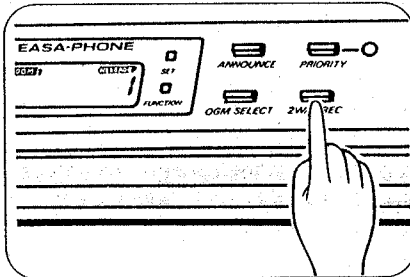
- The IN USE indicator will go out.
- The ANSWER indicator will flash to show that your message was recorded.
- New messages will be automatically recorded after your message memo.

■ The recorded message can be played back with other messages by manually or remotely.

RECORDING A 2-WAY CONVERSATION (2-WAY RECORDING)

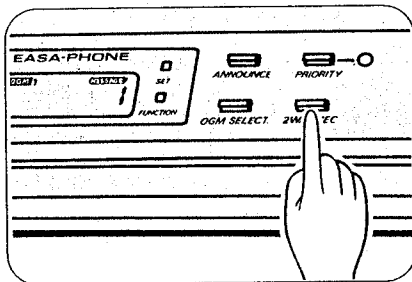
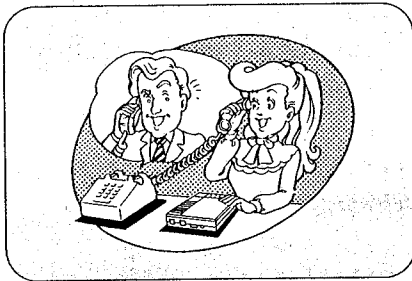
While speaking with someone on the telephone, you can record the conversation. Many states have imposed regulations on the manner in which 2-Way telephone conversations may be recorded.

Consult your local public utility agency. (Your telephone Company)



1 While having a conversation, push **2 WAY REC** until a beep is heard.

- The number on the LC Display will increase by one.
- The IN USE indicator will light.
- The ANSWER indicator will light.
- A beep will sound every 15 seconds.

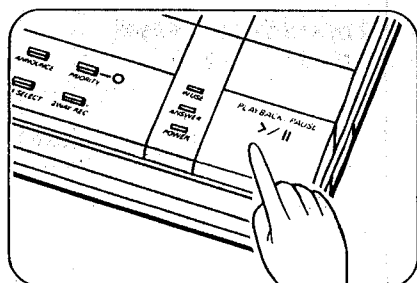
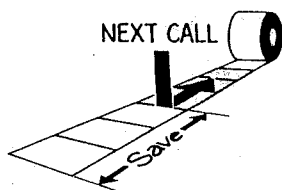


2 When you finish recording, push **2 WAY REC** again.

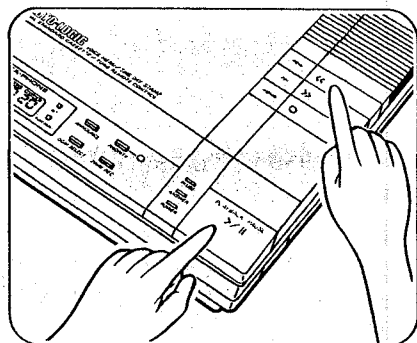
- The IN USE indicator will go out.
- The ANSWER indicator will flash to show that your conversation was recorded.
- The unit will be ready for recording incoming calls.

SAVING THE RECORDED MESSAGES

You can save the desired messages.



- 1 Play back the tape, then push **PLAYBACK/PAUSE** at the end of the message you want to save.
(pause mode)

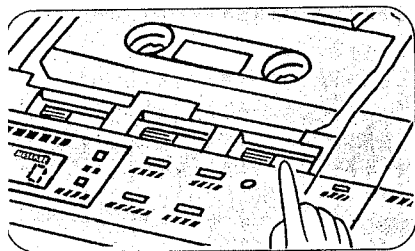


- 2 Push **PLAYBACK/PAUSE** and **REW** simultaneously.

- The IN USE indicator will go out.
- The ANSWER indicator will light.
- The LC Display will show "0".

ERASING THE RECORDED MESSAGES

After you have played back the recorded messages, you can erase them by simply pushing the ICM ERASE button.



1 Push **ICM ERASE** until a beep is heard.

- The unit will erase the recorded messages while the tape is rewinding.
- The LC Display will show "0".

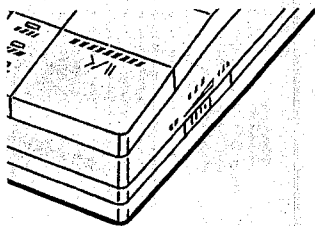
■ If the Priority Message is recorded, it will be erased at the same time.

MONITORING THE INCOMING CALLS

While an Incoming Message is being recorded, you can monitor it. Then you may choose to lift the telephone handset and speak to the caller directly.

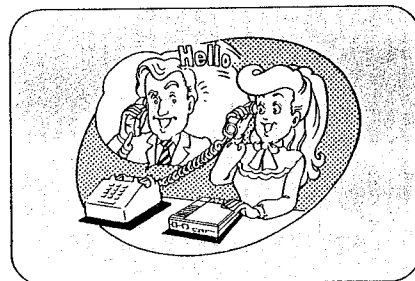


1 Adjust the **VOLUME** control.
(right side of unit)



2 If you want to talk to the caller, lift the telephone handset and talk.

- The unit will automatically stop recording and will be ready to record the next incoming messages.

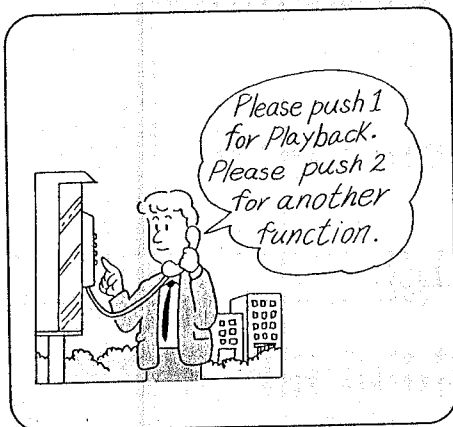


How to Operate from a Remote Phone

REMOTE SYNTHESIZED VOICE INSTRUCTION

You can retrieve the recorded Incoming messages from a remote location with tone telephone.

The remote operation is simplified by a synthesized voice that offers you options over the telephone.

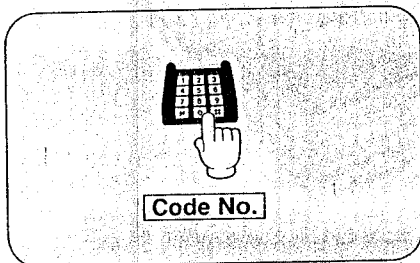


The synthesized voice will give you the direction how to operate your unit from a remote location using a tone telephone.

Without any manuals you can easily access remote operations such as Marker Message.

To operate the unit directly skipping the order of the Voice Menu, see pages 28 through 30.

GOING INTO THE VOICE MENU



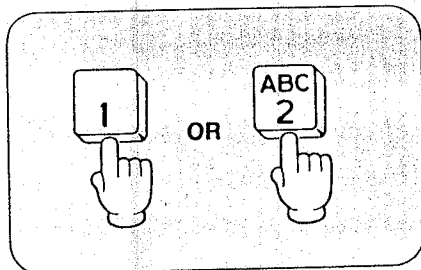
1 Call your unit.

2 Push your Remote Code No. during the OGM playback.

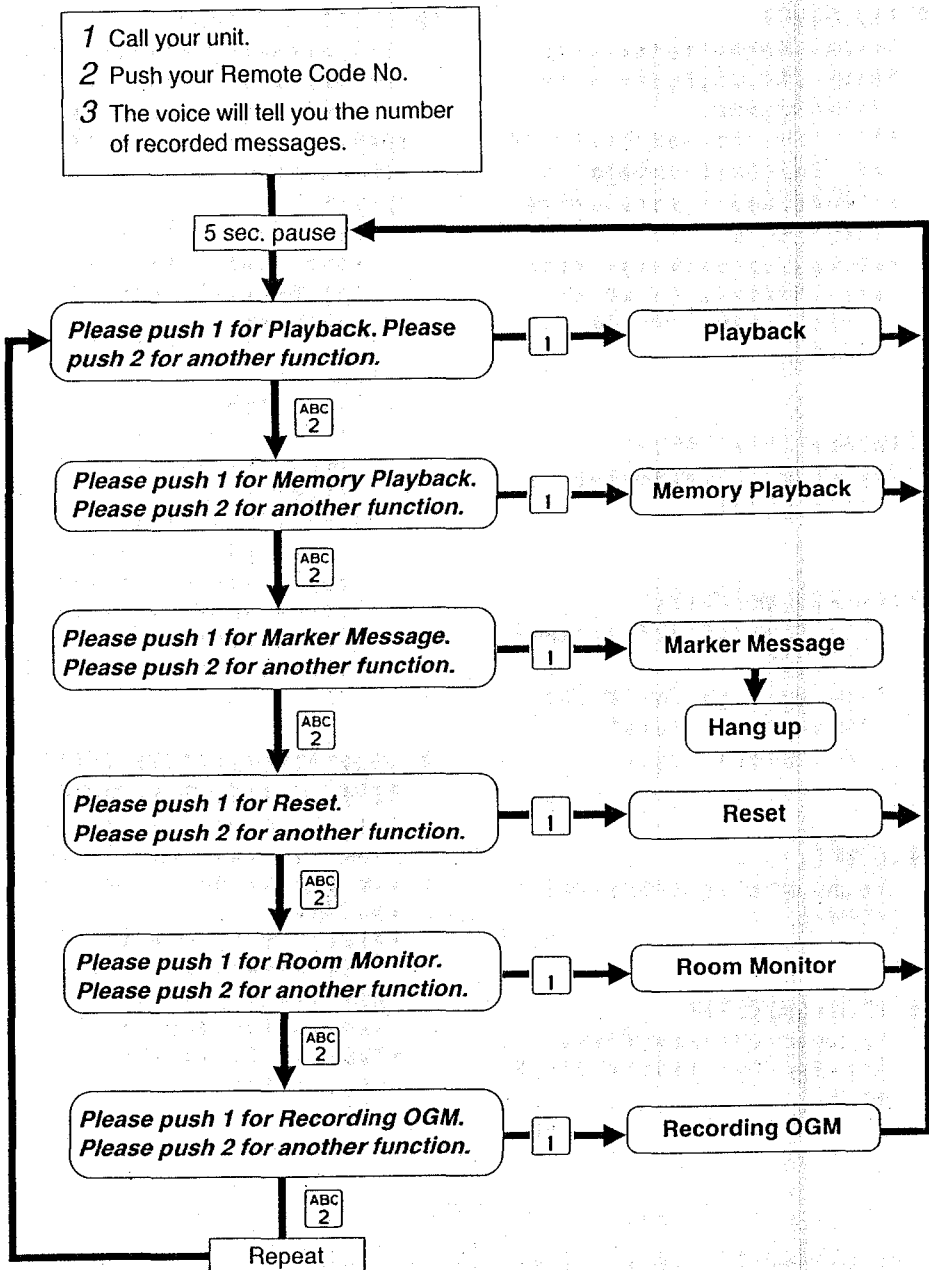
- The voice will tell you how many messages you have received.
- Refer to "REMOTE CODE SETTING" on page 9.

3 After 5 seconds the unit will go into the Voice Menu. The voice will say; **"Please push 1 for Play back. Please push 2 for another function."**

4 Push 1 to go into the announced feature or push 2 to proceed to another feature.



How to Operate from a Remote Phone



- 5 seconds after you have used each function, the unit will repeat Voice Instruction from the beginning.

■ PLAYBACK

The unit will rewind the tape even if the tape is full and play back all the recorded messages.

- After the last message, the voice will say, **"End of final message"**.
- If **"End of tape"** is announced, the ICM tape is full.
- If you want to operate in succession, wait for 5 seconds. The unit will re-start Voice Menu from the beginning.

■ MEMORY PLAYBACK

The unit will play back the newly recorded messages.

■ MARKER MESSAGE

You can leave your index message on the ICM tape.

- 1) Start to talk right after **"Marker Message"** is announced.
- 2) When finished, hang up.

■ RESET

The unit will rewind the tape to the beginning.

■ ROOM MONITOR

You can screen any sound in the room where the unit is installed for 30 seconds.

■ RECORDING OGM

You can re-record the OGM remotely. The voice will say; **"Please push 7 to start recording OGM 1. Please push 8 to start recording OGM 2. Please push 9 to end."**

- 1) Push **"7"**.
 - Short beeps will be heard continuously until the OGM tape has reset and then a long beep will be heard.
- 2) Speak clearly and loudly after the long beep.
- 3) When finished, push **"9"**.
 - The new OGM will be played back. So you can check or amend it.
 - If you pause for over 2 seconds while recording, the unit will sound 6 beeps and announce **"Please record your Outgoing Message again."** If this happens, repeat from step 1.

■ TO REWIND/FAST FORWARD/ RESET DURING PLAYBACK

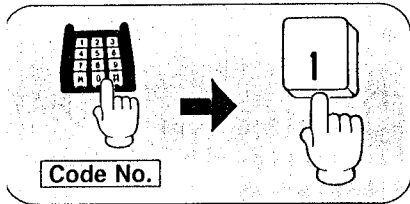
Push **"9"** while messages are being played, the voice will say; **"Please push 1 for Back Space, 2 for Skip, 3 for Reset."**

- **Push "1" or "2"**: The tape will rewind or skip forward for approximately 15 seconds corresponding to playback time.
- **Push "3"**: The unit will rewind the tape to the beginning.

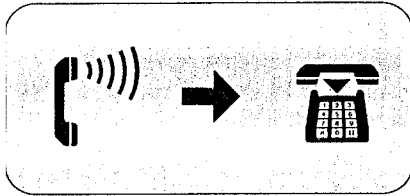
You may hang up at any time and the unit will automatically go into the Answer mode. If you hang up without resetting, future Incoming Messages will be recorded after the last message.

PLAYING BACK MESSAGES

You can listen to the recorded messages by simply pushing your own code number.



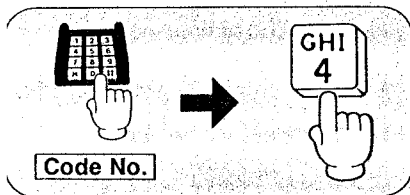
- 1 Push the Code No. (2 digits) during the OGM.
 - “Please push 1 for Playback. Please push 2 for another function.” will be announced.
- 2 Push “1” for Play Back.
 - A synthesized voice will tell you the number of recorded messages.
 - The unit will rewind the tape to the beginning. After a series of short beeps, you will hear all the messages on the tape.



- 3 Listen to the recorded messages.
 - “End of final message” will be heard after the last message.
- 4 Hang up.
 - All calls will be saved automatically.

PLAYING BACK NEWLY-RECORDED MESSAGES (MEMORY PLAYBACK)

When you have already heard the messages from a remote phone, you can skip them and listen to the newly-recorded messages.

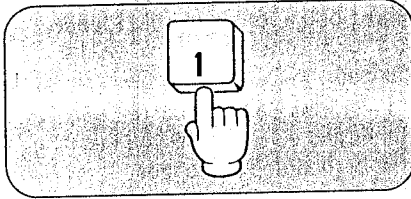


- 1 Push the Code No. during the OGM.
- 2 Push “4” right after you hear the synthesized voice telling the number of the recorded messages.
 - The unit will play back the new messages.
 - Even during the playback of previously heard messages, you can skip them by pushing “4”.

- Once the recorded messages are played back, they won't be played back by “MEMORY PLAYBACK” procedures.
Only newly recorded messages will be played back. To make sure you have retrieved all messages BY YOURSELF, we recommend you sometimes play back the ICM by following the procedures of “PLAYING BACK MESSAGES”.

REWINDING/FAST FORWARDING THE TAPE WHILE LISTENING TO THE MESSAGES

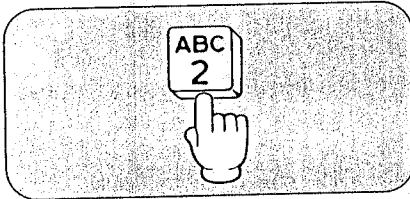
To Back Space



Push "1".

- The tape will be rewound for approximately 15 seconds corresponding to the playback time.

To Skip Forward

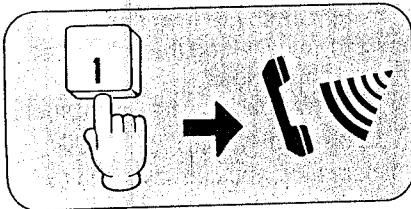


Push "2".

- The tape will be skipped forward for approximately 15 seconds corresponding to the playback time.

RECORDING A MARKER MESSAGE

After reviewing all the messages, you can leave your index message on the tape. It can be heard by anyone retrieving the messages. Follow synthesized voice instructions 5 seconds after hearing "End of final message".



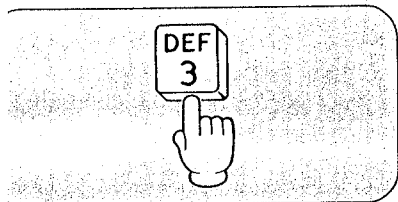
1 Push "1".

- "Marker Message" will be heard.

2 When recording is finished, hang up.

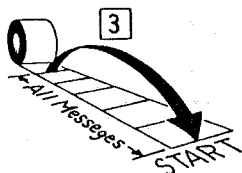
RESETTING THE ICM TAPE FOR FUTURE MESSAGES

to record new Incoming Messages from the beginning of the tape, **after the recorded messages have been played back or while they are being played;**

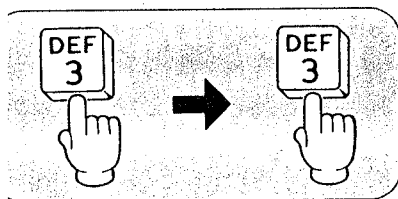


Push "3".

- "Reset" will be announced. The unit will rewind the tape to the beginning and a beep will be heard. Then hang up.
- If the Priority Message is recorded, it will be reset at the same time.



If you have used Memory Playback

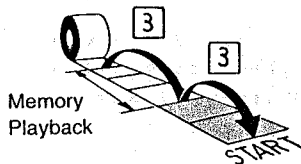


1 Push "3".

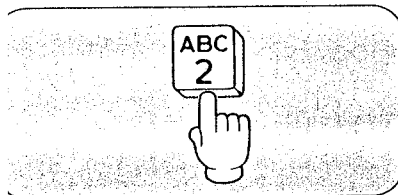
- The unit will rewind the tape to the beginning of **newly-recorded messages** and a beep will be heard.

2 Push "3" again.

- "Reset" will be announced and future messages will be recorded from the beginning of the ICM tape excluding the Priority Message area.



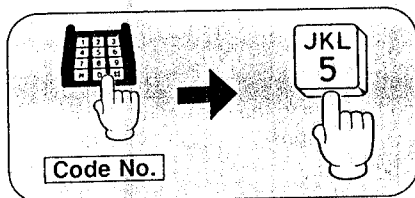
If you have reset the tape by mistake



- Push "2" after the tape has been reset ("Skip" will be announced), then hang up.
- The unit will advance the tape to the end of the recorded messages.

MONITORING ROOM SOUND

You can monitor sounds in the room where the unit is installed. Call your unit, then;

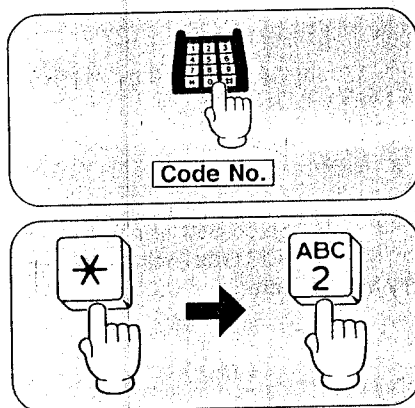


- 1 Push the **Code No.** during the OGM.
- 2 Push **"5"** right after you hear the synthesized voice indicating the number of the recorded messages.
 - "Room Monitor" will be heard.
 - You can listen for 30 seconds.
 - To listen further, push "5" again within 10 seconds of hearing one beep.

CHANGING THE OGM MODE (1 OR 2)

You can change your OGM. Call your unit, then;

From OGM 1 to OGM 2



- 1 Push the **Code No.** during the OGM (OGM 1).
- 2 Push **"*"**, then push **"2"** right after you hear the synthesized voice indicating the number of the recorded messages.
 - "Two" will be announced.
 - The unit will play back OGM 2. OGM 2 has now been selected.

From OGM 2 to OGM 1

Push **"1"** instead of **"2"** at step 2 of "From OGM 1 to OGM 2".

- "One" will be announced.
- The unit will play back OGM 1. OGM 1 has now been selected.

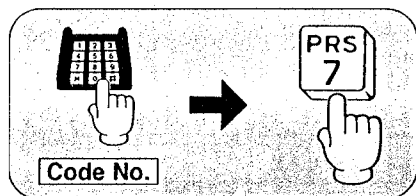
RE-RECORDING THE OUTGOING MESSAGE

You can re-record the Outgoing Messages from a remote phone.

- If you pause for over 2 seconds while recording, you will hear a series of warning tones (6 beeps) and the announcement of **"Please record your Outgoing Message again."** If this happens, repeat from step 2 within 10 seconds of hearing these beeps.

Re-recording OGM1

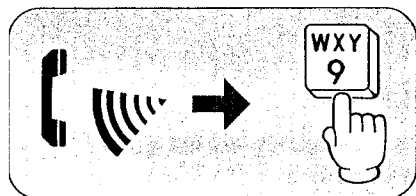
Recording time for OGM 1 is up to 30 seconds.



1 Push the **Code No.** during the OGM.

2 Push **"7"** right after you hear the synthesized voice indicating the number of recorded messages.

- "Recording OGM 1" will be heard.
- Short beeps will be heard continuously until the OGM tape has been reset, and then a long beep will be heard.



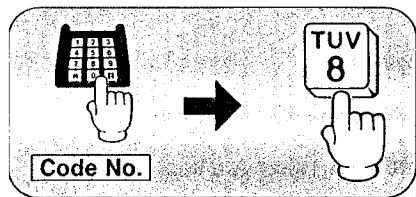
3 Speak clearly and loudly after you hear the long beep.

4 When recording is finished, push **"9"**.

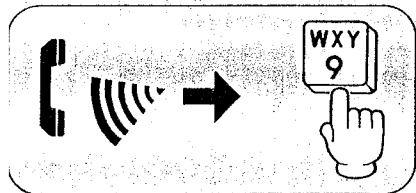
- The new OGM will be played back, so that it can be checked or amended if necessary.

Re-recording OGM2

Recording time for OGM 2 is up to the length of the tape minus 30 seconds reserved for OGM 1.

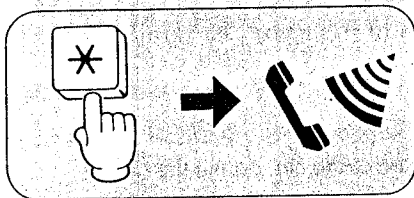


Push **"8"** instead of **"7"** at step 2 of "Re-recording OGM 1".



SKIPPING OGM FOR ICM RECORDING

If you or the caller does not want to hear the Outgoing Message, the unit **can be switched promptly to the Incoming Message mode**. Call your unit, then;

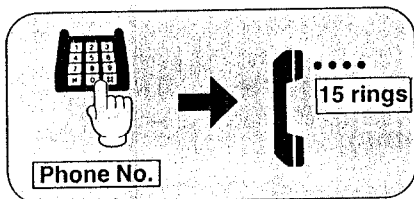


- 1 Push “*” during the OGM.
- 2 **Speak** clearly and loudly after you hear the long beep to record your Incoming Message.

SETTING/CANCELLING THE ANSWER MODE

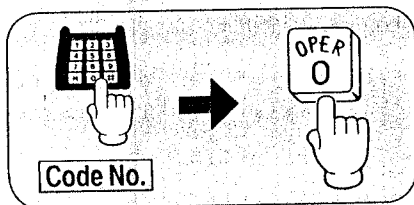
You can easily set or cancel the Answer mode from a remote phone.

To Set



- 1 Call your unit.
- 2 Wait for **15 rings**, the unit will answer. (You may hang up at this time.)
 - OGM will be heard.
 - The unit will be ready for recording incoming calls.

To Cancel



- 1 Call your unit.
- 2 Push the **Code No.** during the OGM.
- 3 Push “0” right after you hear the **synthesized voice indicating the number of the recorded messages**.
 - “Turn off” will be heard.
 - The unit will not pick up any calls.

Troubleshooting Guide

Problem

Cause & Remedy

- The unit does not work when I push any buttons.
- I cannot remove the cassette from the unit.

Plug in the AC adaptor then switch the power on.

The unit has been set to the Answer mode, but no Incoming Messages are recorded.

- The OGM or ICM cassette is cut or is not inserted. Replace the cassette with a new one.
- The OGM is recorded improperly. Record a new OGM.
- The recording time selector is set to "ANNOUNCE".

The unit does not function. However, 6 beeps sound and the Call-Counter shows "Err".

- OGM cassette might be broken. Replace it with a new one.
- Clean the heads. (See page 41.)

While recording an OGM, 6 beep sounds are heard.

Re-record your OGM. Speak clearly and loudly, and do not pause for over 2 seconds while recording.

When the OGM or the ICM tape is played back, the sound level is low, even if the VOLUME control is turned up fully.

- Clean the Heads. (See Maintenance instruction on page 41.)

I have played back all the recorded messages and I want to record the next phone call after the last previously recorded message.

- Wait for 7 seconds. The unit will be ready to record the next phone call.
- In case of remote operation, just hang up.

I push the button of a remote phone, but the unit does not respond.

- Make sure that you are entering your correct Code number.
- Record the OGM in a quiet place.

Some ICM have not been recorded up to their end.

Set the CPC switch to "B"
(See page 8.)

The ICM tape continues to run after a caller hangs up.

Set the recording time selector to "1 MIN".

Liquid Crystal Display

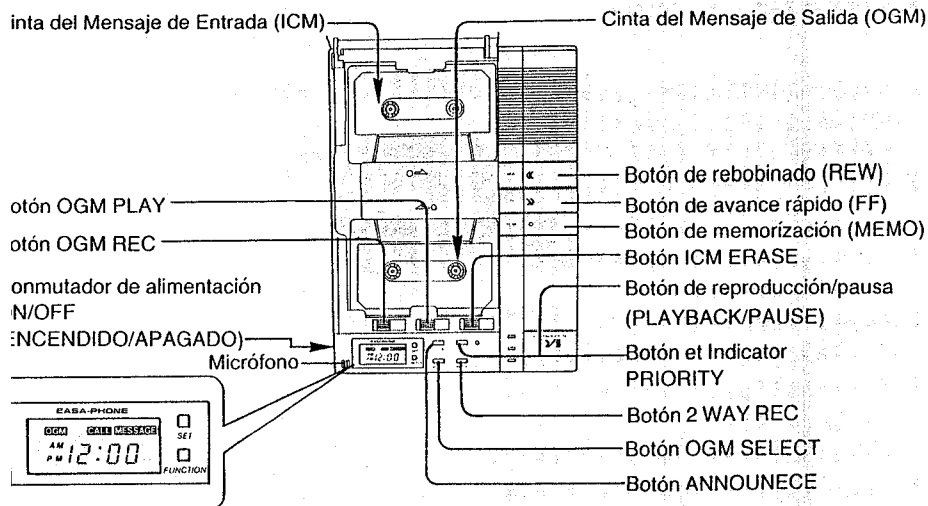
Display Type	When the display shows
AM 10:30 (Real Time)	<ul style="list-style-type: none"> When you set the Power Switch to "OFF".
OGM 1 0 25 (Tape Timer)	<ul style="list-style-type: none"> While you are recording or playing back the Outgoing message. example: "25" means 25 seconds elapsed.
MESSAGE 12 (Message Counter)	Recording Time Selector is set to "1 MIN" or "VOX". The display will show the number of recorded messages.
CALL 18 (Call Counter)	Recording Time Selector: "ANNOUNCE". The display shows the number of calls received.
Err (Error)	<ul style="list-style-type: none"> If the OGM tape is broken or not inserted. If there is more than a 2-second pause in the recording of the OGM
AM 12:08 flashing	<ul style="list-style-type: none"> After plugging the AC Adaptor into the unit at the initial use. When power is restored after a power interruption.

Announcements by the Unit

Announcement Type	When the announcement is said
Monday seven o'clock AM Sunday twelve o'clock PM Wednesday six fifteen PM	<div>Display shows</div> <div> AM 7:00 PM 12:00 PM 6:15 </div> <ul style="list-style-type: none"> When you push the ANNOUNCE button.
Number of messages received twelve (12 messages are recorded.)	<ul style="list-style-type: none"> When you push the playback button. When you push your Code No. on a remote phone to play back the recorded message.

- If the unit does not announced when you push the ANNOUNCE button, set time and day again.

Referencia Rápida



PUESTA DE LA CINTA DEL CASETE

- 1 Abra el panel e inserte las cintas OGM (C15) e ICM (C60).
 - 2 Conecte el adaptador de CA en el terminal de CA.
 - 3 Coloque el conmutador **POWER ON/OFF** en la posición ON.
- El indicador POWER se iluminará.

PARA PROGRAMAR EL CODIGO REMOTO

Eliga el número de código entre los números 0 y 99 y luego programe el código remoto como se indica a continuación.

- 1 Presione **FUNCTION** para activar la modalidad de programación.
 - El visor de cristal líquido indicará "11".
 - "PLEASE ENTER YOUR PASS WORD" será anunciado.
 - 2 Mantenga presionado **SET** hasta que el número deseado aparezca en el visor de cristal líquido.
 - 3 Cuando termine de programar, deje el aparato como esté.
- Para el ajuste de la hora, siga el procedimiento "AJUSTE DE LA HORA" indicado a continuación desde el paso 2.
- Después de 30 segundos, terminará la modalidad de programación automáticamente.

AJUSTE DE LA HORA

- 1 Presione **FUNCTION** para activar la modalidad de programación.
 - El visor de cristal líquido indicará "11".
 - "PLEASE ENTER YOUR PASS WORD" será anunciado.
 - 2 Presione **FUNCTION** para activar la modalidad de ajuste de la hora.
 - ":" parpadeará y será anunciado el mensaje "SUNDAY".
 - 3 Presione **SET** para programar el día.
 - El día será anunciado.
 - 4 Presione **FUNCTION**.
 - Los dígitos de la hora parpadearán.
 - 5 Presione **SET** para programar la hora.
 - 6 Presione **FUNCTION**.
 - Los dígitos de los minutos parpadearán.
 - 7 Presione **SET** para ajustar los minutos.
 - 8 Presione **FUNCTION** para completar el ajuste.
 - La unidad anunciará el día de la semana y la hora.
- Para confirmar, presione **ANNOUNCE**, la unidad anunciará el día y la hora.

SELECCIÓN DE LA MODALIDAD OGM (MENSAJE DE SALIDA)

- 1 Presione **OGM SELECT**.
 - Verifique que la modalidad OGM deseada ha sido seleccionada por la indicación del visor de cristal líquido.

GRABACIÓN DEL MENSAJE DE SALIDA

- 1 Presione **OGM REC** hasta que se escuche un pitido largo, luego deje de presionarlo.
- 2 Hable con voz clara y firme por el MIC.
 - El tiempo de grabación OGM varía según la duración de la cinta empleada.
 - No haga pausas de más de 2 segundos mientras grabe.
- 3 Cuando acabe de hablar, presione el **OGM REC**.

VERIFICACIÓN DEL MENSAJE DE SALIDA

- 1 Presione el **OGM PLAY** para confirmar el mensaje de salida.
 - La unidad reproducirá el Mensaje de Salida y luego rebobinará la cinta hasta el comienzo.
 - La unidad cambiará automáticamente a la Modalidad de contestación después de 7 segundos de la reproducción del MS.

PARA ESCUCHAR LOS MENSAJES

Cuando el teléfono suene, la unidad reproducirá el mensaje de salida (OGM) y luego grabará el mensaje de la persona que llama en la cinta.

1 Presione el **PLAYBACK/PAUSE** (Reproducción/Pause).

- Después que el mensaje ha sido grabado, el aparato reproducirá este mensaje y luego el Mensaje de Entrada (ICM).

PARA GRABAR EL MENSAJE QUE TIENE PRIORIDAD

1 Presione el **PRIORITY** hasta que suene un pitido.

2 Hable por el MIC.

3 Cuando termine, presione el **PRIORITY**.

- Para escuchar el mensaje grabado, presione el botón **PLAYBACK/PAUSE**.

MEMORIZACIÓN DEL MENSAJE

Para grabar un mensaje que va a ser oído por alguien usando el control remoto.

1 Presione el **MEMO** hasta que suene un pitido.

2 Hable por el MIC.

3 Cuando termine, presione el **MEMO**.

GRABACIÓN DE UNA CONVERSACIÓN BIDIRECCIONAL

1 Mientras está hablando, presione el **2 WAY REC** hasta que suene un pitido.

- El contestador producirá un pitido cada 15 segundos.

2 Cuando termine, presione el **2 WAY REC**.

MONITOREO DE LOS MENSAJES DE LLEGADA

Usted puede escuchar el mensaje de llegada mientras se esté grabando.

1 Ajuste el control de volumen.

- Si desea hablar a la persona que llama durante la grabación del mensaje, levante el micrófono y hable.

BORRADO DE LOS MENSAJES GRABADOS

1 Presione ICM ERASE.

- La unidad rebobinará la cinta y a la vez, la unidad borrará los mensajes previos. Los nuevos mensajes serán grabados desde el comienzo de la cinta.

PARA ESCUCHAR MENSAJES DESDE OTRO TELEFONO A DISTANCIA

1 Marque el número de teléfono con sólo un tono telefónico.

2 Cuando empiece el mensaje de salida, presione el número de código (2 dígitos) firmemente y sonará otro pitido.

- La unidad anunciará el número de llamadas.
- El contestador rebobinará la cinta de los mensajes de salida y los reproducirá.
- "Después de haberse reproducido el último mensaje, se escuchará el mensaje "End of final message".

3 Cuelgue el micrófono.

- El mensaje siguiente se grabará después del último mensaje.
- Para grabar el mensaje de llegada (ICM) desde el comienzo de la cinta, pulse el botón "3" y cuelgue el teléfono.

- Si desea proseguir con el procedimiento de manera continua espere 5 segundos. La unidad empezará con el menú de la voz después de que el número de código remoto haya sido programado.

■ **Retroceso:**

Presione el botón "1" para rebobinar unos 15 segundos de la cinta y reproducirla.

■ **Avance por salto:**

Presione el botón "2" para hacer que la cinta avance unos 15 segundos y para reproducirla.

CAMBIO DE LA MODALIDAD OGM

Ud. puede cambiar la modalidad OGM.

DEL OGM 1 AL OGM 2

- 1 Presione el **número de código** durante el mensaje de salida.
- 2 Presione “*”, luego presione “2” durante el mensaje de salida.
 - La unidad reproducirá el mensaje de salida 2 (OGM 2).

DEL OGM 2 AL OGM 1

- Presione “1” en vez de “2” en el paso 2 del procedimiento “DEL OGM 1 AL OGM 2”.
- La unidad reproducirá el mensaje de salida 1 (OGM 1).

CAMBIO DEL MENSAJE DE SALIDA

Ud. puede re-grabar el mensaje de salida desde un teléfono remoto.

Para cambiar el mensaje de salida 1 (OGM 1)

- 1 Cuando empiece el mensaje de salida, presione el número de código (2 dígitos) firmemente y sonará otro pitido.
- 2 Presione “7”.
 - Pitidos cortos se escucharán continuamente hasta que la cinta OGM haya sido rebobinada, y luego se escuchará un pitido prolongado.
- 3 Hable claramente y en voz alta después de escuchar el pitido prolongado.
 - No haga pausas de más de 2 segundos.
- 4 Cuando termine la grabación, presione “9”.
 - El nuevo mensaje de salida será reproducido. Ahora lo puede confirmar o corregir.

Para cambiar el mensaje de salida 2 (OGM 2)

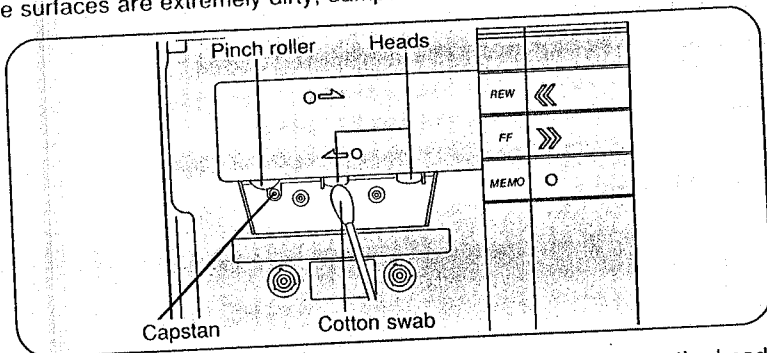
Presione “8” en vez de “7” en el paso 2 del procedimiento “Para cambiar el mensaje de salida 1 (OGM 1)”.

Maintenance

Because the head and capstan assemblies are in contact with the tape, dirt and residue from the tape can easily adhere to these parts, causing distortion. These parts should be cleaned periodically in the manner described below.

- **Clean the head surface, pinch roller and capstan with a cotton swab.**

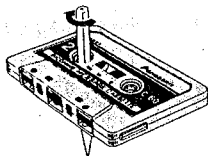
If these surfaces are extremely dirty, dampen the cotton swab with alcohol.



- Do not bring magnetic or metal objects, such as a screwdriver, near the head assemblies, as such objects could magnetize the heads.
- Do not oil any part of the unit.

Cassette Tape

- For optimum sound quality and performance, **we recommend that you re-record your OGM every three months, use side two after six months and replace the tape every year** assuming that the unit answers about ten calls a day.
- Should the Incoming Message cassette tape break or become worn, replace it with a high quality "NORMAL" tape. Use Panasonic (C15, C30, C60, C90), TDK or MAXELL cassette tape. Metal or chrome tape cannot be used.
- Never place a cassette tape near a magnetic source, such as a magnet or a TV set, because it may erase the tape.
- Slack in the tape can be tightened by rotating the tape reel with a pencil, as shown.



Others

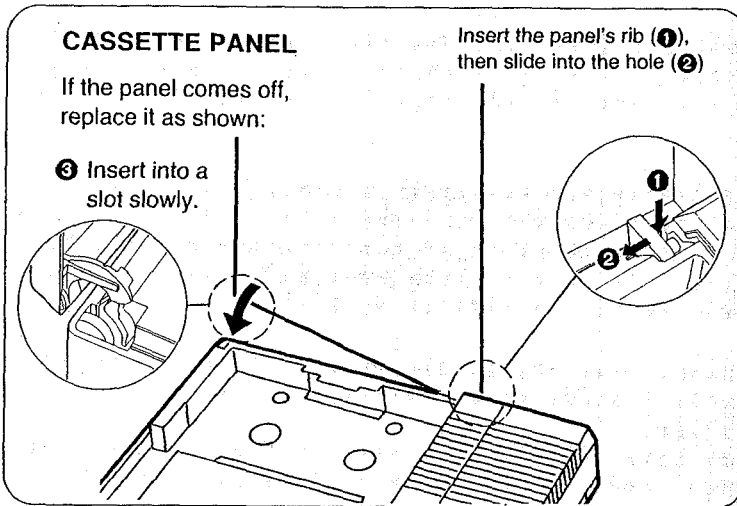
If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your Panasonic phone repaired by one of the specified Panasonic Factory Service Centers. If the known working telephone does not operate properly, consult with a telephone company.

Do not use benzine, thinner, or similar solvents. Do not use abrasive powder to clean the cabinet. Wipe it with a soft cloth.

Keep the unit away from heating appliances and electrical noise generating devices such as fluorescent lamps, motors and television. These noise sources can interfere with the performance of the unit.

The unit should be kept free of dust, moisture high temperature and vibration, and should not be exposed to direct sunlight.

Never attempt to insert wires, pins, etc. into the vents or other holes of this unit.



Accessory Order Information

Replacement parts and accessories are available through your local authorized parts distributor.

For the authorized distributors in your area, call toll free: 1-800-447-4700

Part No.	Description	Comment
KX-C150	OGM Tape	
KX-C300	ICM Tape	
KX-C600		

Important Information

If requested by the Telephone Company, inform them as follows:

- FCC Registration No. (found on the bottom of the unit)
- Ringer Equivalence 0.4 B
- The particular telephone line to which the equipment is connected.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in F.C.C. Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation or its business and is not inconsistent with the rules and regulations in F.C.C. Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

"This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the F.C.C. Rules.

If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that use by the receiver."

Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

Servicenter Directory

To locate an Authorized Servicenter in your area within the U.S.A.

DIAL TOLL FREE: 1-800-447-4700

24 Hours a Day, 7 Days a Week

Consumers requiring assistance with service matters should contact the appropriate Regional Administration Office:

NORTHEAST

2250 Cabot Blvd., West
Langhorne, PA 19047
215-741-0676

Covers:

CT, DE, ME, MD, MA,
NH, NJ, NY, PA, RI, VT,
VA, DC, WV, Eastern OH

MIDWEST

425 East Algonquin Road
Arlington Heights, IL 60005
312-981-4842

Covers:

IL, IN, IA, KS, KY, MI,
MN, MO, NE, ND,
SD, WI, Western OH

WESTERN

6550 Katella Avenue
Cypress, CA 90630
714-373-7438

Covers:

AK, AZ, CA, CO, ID,
MT, NV, NM, OR, UT,
WA, WY

SOUTHERN

1854 Shackelford Court
Suite 105
Norcross, GA 30093
404-925-6860

Covers:

AL, AR, FL, GA, LA,
OK, MS, NC, SC, TN,
TX

Consumers requiring product information or operating assistance with a consumer product should contact:

CONSUMER AFFAIRS DEPARTMENT 2F-3

50 Meadowland Parkway Secaucus, N.J. 07094 (201) 348-9090

Service in Puerto Rico

MATSUSHITA ELECTRIC OF PUERTO RICO, INC.

Panasonic Sales Company/Factory Servicenter

San Gabriel Industrial Park
651h Infantry Avenue KM 9.5
Carolina, Puerto Rico 00630
809-750-5135

Your product is designed and manufactured to ensure a minimum of maintenance. However, should your unit ever require service, a nationwide system of FACTORY SERVICENTERS and AUTHORIZED INDEPENDENT SERVICENTERS is maintained to support your product's warranty.

Service in the U.S.A. ... Factory Servicenters

MATSUSHITA SERVICES COMPANY

Division of Matsushita Electric Corporation of America
50 Meadowland Parkway, Secaucus, New Jersey 07094

ALABAMA

523 5th Avenue, South
Birmingham, AL 35233
205-252-4195

ARIZONA

332 North 95th way
Suite 101
Cottsdale, AZ 85258
602-860-6777

CALIFORNIA

550 Katella Avenue
Cypress, CA 90630
714-373-7426
30 South Mt. Vernon Drive
Oton, CA 92324
414-825-3110
100 Dubuque Avenue
O. San Francisco, CA 94080
15-871-6373
0201 Sherman Way
Suite 102
Anaheim Park, CA 91306
714-709-1775
878 Hutton Rd., Suite A
San Diego, CA 92123
619-560-9200
COLORADO
640 South Abilene
Durango, CO 80012
303-752-2024

FLORIDA

16175 NW 52nd Avenue
Miami, FL 33014
305-624-6521
4115 W. Kennedy Boulevard
Tampa, FL 33609
813-289-9726
GEORGIA
4245 International Blvd.
Suite C
Norcross, GA 30093
404-925-6880
1575 Northside Drive
Suite 325
Atlanta, GA 30318
404-351-8978
(carry-in service only)
HAWAII
99-859 Iiwaia Street
P.O. Box 774 Honolulu
Hawaii 96808-0774
808-488-1996
ILLINOIS
425 E. Algonquin Road
Arlington Heights, IL 60005
312-981-4840

MARYLAND

Sulphur Spring Business
Park, 1638 Sulphur Spring
Road, Baltimore, MD 21227
301-242-2607
MASSACHUSETTS
383 University Avenue
Westwood, MA 02090
617-329-4280
MINNESOTA
7850- 12th Avenue, South
Airport Business Center
Bloomington, MN 55420
612-854-8624
MISSOURI
13711 Rider Trail North
Earth City, MO 63045
314-739-5301
OHIO
1196 W. Kemper Rd
Cincinnati, OH 45240
513-851-4180

PENNSYLVANIA

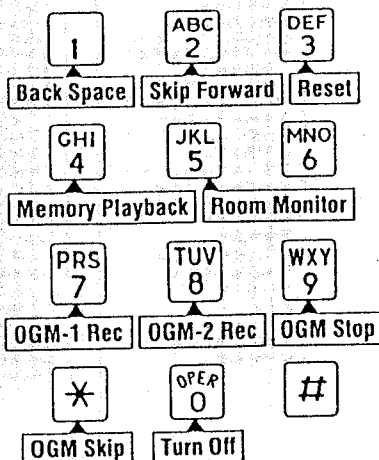
2250 Cabot Blvd., West
Langhorne, PA 19047
215-714-0661
4988 Library Road, Rt. 88
Hillcrest Shopping Center
Bathel Park, PA 15102
412-343-0555
TENNESSEE
925-8th Avenue, South
Nashville, TN 37203
615-244-4434
TEXAS
7240 Harwin Drive
Houston, TX 77036
713-781-1528
4500 Aron Carter Blvd.
Fort Worth, TX 76155
817-685-1060
WASHINGTON
20425-84th Ave., South
Kent, WA 98032
206-872-7922

Panasonic Telephone Products Limited Warranty

Panasonic Company or Panasonic Sales Company (collectively referred to as "Panasonic") will repair this product with new or rebuilt parts, free of charge, in the U.S.A. or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship. Carry-in or mail-in service in the U.S.A. can be obtained during the warranty period from a Matsushita Services Company (MSC) Factory Servicer listed in the Servicer Directory. Or call 1-800-447-4700, toll free, to locate an authorized MSC Servicer. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the telephone numbers listed in the Servicer Directory printed in the Operating Instructions. This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered. This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, or commercial use of the product, or service by anyone other than a MSC Factory Servicer or authorized MSC Servicer, or damage that is attributable to acts of God.

QUICK REFERENCE CARD

FOR TONE REMOTE CONTROL



- When you push a button, push firmly.
- The unit will enter into the Voice Menu mode if you don't push a button.

Call your unit. → For OGM Skip push *****.

Push Code No. _____ → For Memory Playback, push **4**.

→ For Room Monitor, push **5**.

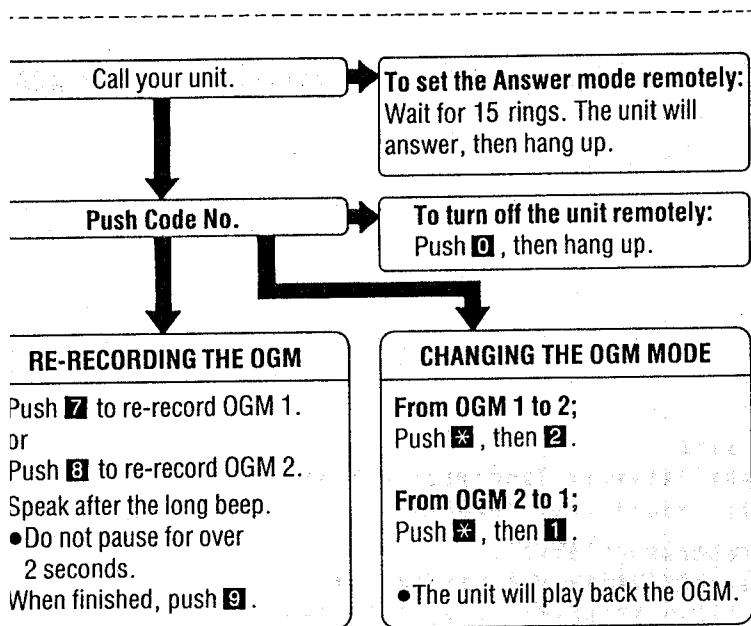
During ICM being played back:

- For Back Space, push **1**.
- For Skip Forward, push **2**.
- For ICM Tape Reset, push **3**.
- To save the ICM, hang up after playback.
- To record a marker message, speak after the announcement of "Marker Message".

Limits and Exclusions

There are no express warranties except as listed above. PANASONIC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicer. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated in the back cover.



If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton.

Attach a postage-paid letter, detailing the complaint, to the outside of the carton. **DO NOT** send the product to the Executive or Regional Sales offices. They are **NOT** equipped to make repairs.

Product Service

Panasonic Servicenters for this product are listed on page 44.
Consult your authorized Panasonic dealer for detailed instructions.

For your future reference

Serial No. _____ (found on the bottom of the unit)

Name of Dealer _____

Date of Purchase _____

Dealer's Address _____

Panasonic Company
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.
San Gabriel Industrial Park, 65th Infantry Avenue, KM 9.5, Carolina, P.R. 00630